

**ABSTRACT**

A monolithic sputtering target assembly having a one piece assembly made from the same material is disclosed. Also disclosed are other sputtering target assemblies which have a backing plate and a sputtering target blank wherein the backing plate is made from or contains  
5 a metal, such as a valve metal, cobalt, titanium, or alloys thereof. Methods of recycling target assemblies are further disclosed as well as unique methods of providing target assemblies to fabricators.